
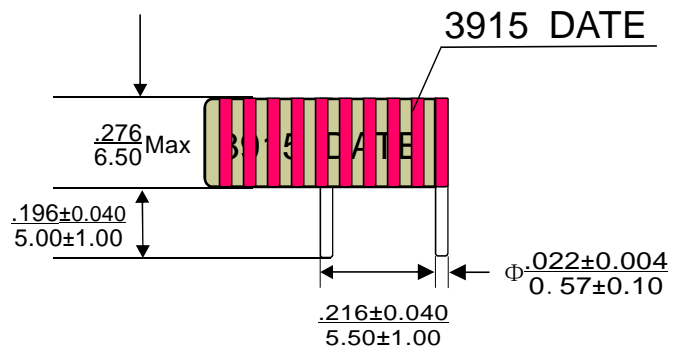


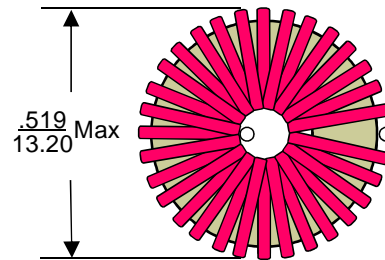
REVISIONS			
REV.	DESCRIPTION	ECN NO.	DATE
01	FIRST RELEASE FOR RFQ A2017-14529b	N/A	03/09/17

PAGE 4 IS FOR INTERNAL ONLY

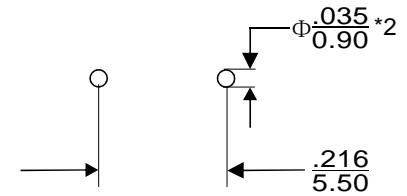
PART NUMBER		PART DESCRIPTION		TITLE											
831-03915F		RoHS compliant per EU Directive 2011/65/EU		PPIN, T CORE, 30uH, 4.5A, TH, 2PIN											
<p style="text-align: center;"><b><u>WARNING !</u></b></p> <p>ALL SHEETS OF THIS DOCUMENT ARE CONTROLLED DOCUMENTATION AND ARE NOT TO BE RELEASED OUTSIDE OF E&amp;E OR ITS SUB-CONTRACTORS WITHOUT AUTHORIZATION.</p>		UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCH/mm.		APPROVALS											
		<p style="text-align: center;"><u>TOLERANCE ARE:</u></p> <table border="0"> <tr> <td>INCH</td> <td>mm</td> <td>ANGLE</td> </tr> <tr> <td>.XXX ± .005</td> <td>.XX ± .13</td> <td>X.X ± 0.3</td> </tr> <tr> <td>.XX ± .02</td> <td>.X ± .5</td> <td>X ± 1</td> </tr> </table>		INCH	mm	ANGLE	.XXX ± .005	.XX ± .13	X.X ± 0.3	.XX ± .02	.X ± .5	X ± 1	DATE		 <p>E &amp; E Magnetic Products Ltd.</p>
		INCH	mm	ANGLE											
		.XXX ± .005	.XX ± .13	X.X ± 0.3											
		.XX ± .02	.X ± .5	X ± 1											
DRAWN BY		P. NI		03/09/17											
PROJ. ENG		K.DENG		03/09/17											
APPROVED BY		J.YANG		03/09/17											
Q.A.		D.LUO		03/09/17											
DRAWING NO./MODEL		831-03915F		REV											
				01											
SCALE		DO NOT SCALE		PAGE 1 OF 4											



FRONT VIEW



BOTTOM VIEW



Recommend  
Pad Layout

1. Dimensions are specified in  $\frac{\text{inches}}{\text{mm}}$  with higher precedence in inches.
2. Unless otherwise specified, all tolerance are  $\pm \frac{.010}{0.25}$ .
3. "(DATE)" includes at least the manufacturing date code (in YYWW format).

## MECHANICAL OUTLINE



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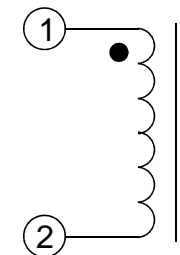
2

OF

4


**ELECTRICAL SPECIFICATION @25°C:**

PARAMETERS	UNIT	LIMITS
Inductance, Ls(1-2) @1KHz, 0. 25Vrms	uH	30 +10%-14%
Inductance, Ls(1-2) @1KHz, 0. 25Vrms, 4.5A drops from its initial value	%	30 TYP
DCR(1-2)	mW	32 MAX



**SCHEMATIC**

4. Heating current, Irms, is the current required to raise the component temperature by approximately 40°C at an ambient temperature of 25°C. Idc of this part is 3.5 A.
5. Operating temperature: -40°C to +125°C.
6. The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part

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